SOLID DOSAGE FORMS FOR RAPID DISSOLUTION OF POORLY SOLUBLE DRUGS

ABSTRACT OF THE INVENTION

This invention demonstrated novel pharmaceutical compositions that improve dissolution, water dispersion and/or oral absorption of insoluble or poorly soluble drugs without increase in formulation complicity and patient appliance as compared with conventional solid-dosage form. The compositions of the present invention comprise a lipid or mixed lipids that dissolve the insoluble or poorly soluble drugs and forms solution, micelles, microemulsion or emulsion with the drugs in aqueous media. The compositions further comprise a porous powder or mixed porous powder that absorb the drug-lipid melts in a considerable amount (> than their own mass) while remaining free flowing and compressible in nature. Due to their excellent effectiveness-simplicity ratio, the compositions of this invention have a wide applicability to therapeutic compounds whose efficacy is limited by poor solubility, low dissolution rate and less absorption.